

CLAIMS:

Having thus described the invention, what is claimed and desired to be secured by Letters Patent is:

1. A building block manufacturing machine comprising:
 - a. a compression chamber capable of containing compressible block making material, said material comprised entirely or in part of waste material selected from the group consisting of fly ash, ground wood, waste vegetation matter, sea shells and sand; and
 - b. a ram capable of exerting a desired pressure on the contents of said compression chamber;wherein, when said block making material is placed in the compression chamber, the ram may exert a desired pressure on the material, thereby compressing the material into a desired shape conforming to the interior surfaces of the compression chamber.
2. The building block manufacturing machine of claim 1, further comprising a second compression chamber capable of compressing block making material, and said ram also being capable of exerting a desired pressure on the contents of said second compression chamber, wherein as the ram exerts pressure on the first compression chamber, the second compression chamber may be loaded with block making material, and when the ram exerts pressure on the second compression chamber, the first compression chamber may be loaded with block making material
3. The building block manufacturing machine of claim 1, further comprising a fill chamber, said fill chamber being in proximity to said compression chamber and capable of receiving the block making material, such that the material may be transferred from the fill chamber into the compression chamber by the ram.
4. The building block manufacturing machine of claim 3, wherein the fill chamber is attached to the compression chamber.
5. The building block manufacturing machine of claim 4, wherein the ram, the fill chamber and the compression chamber are all linearly aligned to one another.

6. The building block manufacturing machine of claim 1, wherein the pressure exerted by the ramming device is sufficient to cure said block making material.
7. The building block manufacturing machine of claim 1, further comprising a gate associated with the compression chamber, said gate being capable of closing to retain the contents of the compression chamber in the compression chamber and capable of opening to release the contents of the compression chamber.
8. The building block manufacturing machine of claim 7, further comprising an actuator, said actuator capable of opening said gate.
9. The building block manufacturing machine of claim 7, further comprising an actuator, said actuator capable of closing said gate.
10. The building block manufacturing machine of claim 1, further comprising a ridge on the inner surfaces of said compression chamber, the ridge capable of imparting an impression into the block making material placed in the compression chamber.
11. The building block manufacturing machine of claim 1, wherein the ramming device is hydraulic.
12. The building block manufacturing machine of claim 1, wherein the ramming device is pneumatic.
13. The building block manufacturing machine of claim 1, further comprising an electronic control unit, said control unit capable of controlling one or more of the control functions of the machine.
14. A method for manufacturing building blocks comprising the steps of:
 - a. Forming a mixture of compressible block making material, said material comprised entirely or in part of waste material selected from the group consisting of fly ash, ground wood, waste vegetation matter, sea shells and sand;
 - b. Placing said block making material into a compression chamber, the interior surfaces of said chamber having a desired shape; and
 - c. Compressing said material into a desired shape in said compression chamber with a ram.
15. The method of claim 14, wherein the ram applies sufficient pressure to the compressible block making material in the compression chamber to cure said material.

16. The method of claim 14, further comprising the step of placing said compressible block making material into a fill chamber, the ram forcing the material from the fill chamber into the compression chamber.

17. The method of claim 16, further comprising the step of closing a gate attached to the compression chamber to retain the compressible block making material in the compression chamber.

18. The method of claim 17, further comprising the step of opening the gate to enable the removal of the building block from the compression chamber.

19. The method of claim 18, further comprising the step of using an electronic control unit to monitor and control the operation of the ram and the gate.

20. The building block manufacturing machine of claim 1 wherein a quantity of cement is added to the material selected to form the compressible block.